

PATENT APPLICATION
Mo-5856 D2
LeA 32,759 D2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN APPLICATION OF)
FOLKER LIEB ET AL)
SERIAL NO.: TO BE ASSIGNED)
FILED: HEREWITH)
TITLE: ARYLPHENYL-SUBSTITUTED)
CYCLIC KETO-ENOLS)

**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. 1.97 AND 1.98**

Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement Pursuant to 37 C.F.R. Section 1.97 and 1.98 is being submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements.

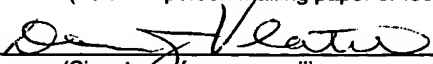
As permitted by 37 C.F.R. 1.98(d)(1) and (2), Applicants are not supplying herewith copies of any patent, publication, pending U.S. application or other information listed on the accompanying Form PTO 1449.

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Donna J. Veatch

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The present application is a Divisional application of U.S. Patent Application Serial Number 09/623,016 filed October 23, 2000, (the "Earlier Application(s)") which Earlier Application(s) is (are) relied upon for an earlier effective filing date under 35 U.S.C. Section 120. The Information cited on the accompanying Form PTO 1449 was cited in and copies thereof were provided with one or more Information Disclosure Statements and/or Forms PTO1449 filed in the Earlier Application(s).

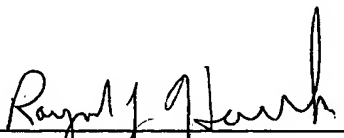
More particularly, this Information was cited and copies thereof were provided in the Earlier Application(s) by way of:

Form PTO 1449 filed March 22, 2001 in Serial Number 09/623,016 and Form PTO 1449 filed March 7, 2003 in Serial Number 10/137,763.

Additional Information may have been cited in, and copies thereof may have been provided by the U.S.P.T.O. with, one or more Forms PTO 892 in the Earlier Application(s). Applicants request that such Information also be made of record in the case.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional Information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

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Form PTO 1449 Rev. 7-80 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. Mo5856D2/LeA 32,759D2	Serial No. To be Assigned
	Applicant Folker Lieb et al	
	Filing Date Herewith	Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,358,887 B1	03/19/02	(Bel. to corresp. to DE Fischer et al	195,43,864) 504	284	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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							Yes	No*
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	AM							
	AN							
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	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Merck Index, 11 th ed., Merck & Co. Rahway, page 3312, Compound No. 3314, (month unavailable) 1989
	AS	
	AT	

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Neither English Language Equivalent nor an English Language Translation is available.

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	AA	4,104,043	08/01/78	(Bel. to corresp. to DE Durden, Jr. et al	2,361,084) 71	107	
	AB	4,175,135	11/20/79	Haines	424	311	
	AC	4,209,432	06/24/80	(Bel. to corresp. to DE Roth	2,813,341) 260	29.2 M	
	AD	4,256,657	03/17/81	(Bel. to corresp. to DE Wheeler	2,813,341) 260	465 D	
	AE	4,256,658	03/17/81	(Bel. to corresp. to DE Wheeler	2,813,341) 260	465D	
	AF	4,256,659	03/17/81	(Bel. to corresp. to DE Wheeler	2,813,341) 260	465D	
	AG	4,257,858	03/24/81	(Bel. to corresp. to DE Wheeler	2,813,341) 204	158R	
	AH	4,283,348	08/11/81	Wheeler	260	465D	
	AI	4,303,669	12/01/81	D'Silva	424	282	
	AJ	4,338,122	07/06/82	Wheeler	71	122	
	AK	4,351,666	09/28/82	Koerwer	71	106	

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							Yes	No*
	AL	*96/25395	08/22/96	World Patent				
	AM	*196 49 665	10/09/97	Germany				
	AN	*44 31 730	08/10/95	Germany				
	AO	*195 43 864	08/14/96	Germany				
	AP	*442,077	08/21/91	Europe				

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	AR	Chem. Pharm Bull., 15, (month unavailable), 1967, Pages 1120-1122, Seikichi Suzuki, et al, "Studies on Antiviral Agents. M ¹ Biological Activity of Tenuazonic Acid Derivatives"
	AS	Liebigs Ann. Chem. (month unavailable), 1985, Pages 1095-1098, Roland Schmierer et al, "Cyclisierung von N-Acylalanin- und N-Acylglycinestern"
	AT	J. Chem. Soc. Perkin Trans. 1, (month unavailable), 1985, Pages 1567-1576, A. C. Campbell et al, "Synthesis of (E)- and (Z)-Pulvinones"

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,409,153	10/11/83	Hodakowski	260	946	
	AB	4,422,870	12/27/83	(Bel. to corresp. to DE Wheeler)	2,813,341) 71	106	
	AC	4,436,666	03/13/84	Wheeler	260	455 B	
	AD	4,526,723	07/02/85	Wheeler et al	260	410.5	
	AE	4,551,547	11/05/85	Wheeler	560	255	
	AF	*4,613,617	09/23/86	Sousa	514	521	
	AG	4,632,698	12/30/86	Wheeler	71	106	
	AH	4,659,372	04/21/87	(Bel. to corresp. to DE Wheeler)	2,813,341) 71	106	
	AI	4,925,868	05/15/90	(Bel. to corresp. to EP Terao et al)	262,399) 514	425	
	AJ	4,985,063	01/15/91	(Bel. to corresp. to EP Fischer et al)	355,599) 71	88	
	AK	5,045,560	09/03/91	(Bel. to corresp. to EP Fischer et al)	377,893) 514	425	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	*96/20196	07/04/96	World Patent				
	AM	*521,334	01/07/93	Germany				
	AN	*97/14667	04/24/97	World Patent				
	AO	2,266,888	05/06/93	Great Britain				
	AP	95/20572	08/03/95	World Patent				X

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	AR	J. Heterocycl. Chem., 25 (5), Sept-Oct, 1988, Pages 1301-1305, G. Zvilichovsky, "Crystal Structure, Dissociation and Zwitterion Formation in 2,6-Diaryl-1(3)-oxo-3(1)-hydroxy-5(7)-imino-7(5)-amino-1 <i>H</i> ,5 <i>H</i> -(3 <i>H</i> ,7 <i>H</i>)-pyrazolo[1,2- <i>a</i>]pyrazoles"
	AS	J. Heterocycl. Chem, 25 (5), Sept-Oct, 1988, Pages 1307-1310, G. Zvilichovsky, "Acidity and Alkylation of 4-Phenyl-3,5-dihydroxy-pyrazole and Its Derivatives. <i>C</i> versus <i>O</i> and <i>N</i> Alkylation"
	AT	Zh. Obshch. Khim., 34 (7), (month unavailable), 1964, Pages 239-240, Z. I. Miroshnichenko et al, "Cyanine Dyes, Derivatives of 2-Methyl 4,5-(2',3'-Thionaphtheno)Thiazole"

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	Filing Date Herwith	Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,091,537	02/25/92	(Bel. to corresp. to EP Fischer et al	355,599) 546	226	
	AB	5,094,681	03/10/92	(Bel. to corresp. to DE Krämer et al	4,014,420) 71	88	
	AC	5,116,836	05/26/92	(Bel. to corresp. to EP Fischer et al	415,211) 514	224.2	
	AD	5,142,065	08/25/92	(Bel. to corresp. to EP Fischer et al	355,599) 548	533	
	AE	5,186,737	02/16/93	(Bel. to corresp. to EP Fischer et al	377,893) 504	283	
	AF	5,207,817	05/04/93	(Bel. to corresp. to DE Krämer et al	4,014,420) 504	299	
	AG	5,225,434	07/06/93	(Bel. to corresp. to EP Bertram et al	442,073) 514	411	
	AH	5,258,527	11/02/93	(Bel. to corresp. to EP Krauskopf et al	456,063) 548	543	
	AI	5,262,383	11/16/93	(Bel. to corresp. to EP Fischer et al	528,156) 504	195	
	AJ	5,332,720	07/26/94	(Bel. to corresp. to EP Krüger et al	508,126) 504	281	
	AK	5,358,924	10/25/94	(Bel. to corresp. to EP Krüger et al	508,126) 504	197	

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							Yes	No*
	AL	96/21652	07/18/96	World Patent				
	AM	96/35664	11/14/96	World Patent				X
	AN	96/36229	11/21/96	World Patent				
	AO	96/36615	11/21/96	World Patent				
	AP	96/25395	08/22/96	World Patent				X

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	AR	Farmakol Toksikol (Moscow), 38 (2), (month unavailable), 1976, Pages 180-186, K. M. Lakin et al, "The Effect of Some Pyrazolone Derivatives on the Aggregation of Thrombocytes" (abstract on page 186)
	AS	Arch. Pharm. 309, (month unavailable) 1976, Pages 558-564, A. M. Chirazi et al, "Zur Synthese von Kawalactonderivaten"
	AT	Chem. Bec., 91 (date unavailable), Page 2849, K.-H. Boltze et al, "Ringschlüsse mit Malonsäure-dichloriden"

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,462,913	10/31/85	(Bel. to corresp. to EP Fischer et al	596,298) 504	138	
	AB	5,494,890	02/27/96	(Bel. to corresp. to WO Cederbaum et al	92/16510) 504	281	
	AC	5,504,057	04/02/96	(Bel. to corresp. to EP Fischer et al	521,334) 504	283	
	AD	5,506,193	04/09/96	(Bel. to corresp. to WO Cederbaum et al	92/16510) 504	282	
	AE	5,565,450	10/15/96	(Bel. to corresp. to WO Fischer et al	94/14785) 514	227.2	
	AF	5,567,671	10/22/96	(Bel. to corresp. to EP Fischer et al	613,884) 504	283	
	AG	5,602,078	02/11/97	(Bel. to corresp. to EP Fischer et al	613,884) 504	283	
	AH	5,610,122	03/11/97	(Bel. to corresp. to EP Fischer et al	647,637) 504	251	
	AI	5,622,917	04/22/97	(Bel. to corresp. to EP Fischer et al	668,267) 504	283	
	AJ	5,661,110	08/26/97	(Bel. to corresp. to EP Krüger et al	508,126) 504	281	
	AK	5,677,449	10/14/97	(Bel. to corresp. to EP Fischer et al	596,298) 544	165	

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							Yes	No*
	AL	96/02539	02/01/96	World Patent				X
	AM							
	AN							
	AO							
	AP							

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	AR	Monatsh, 95 (month unavailable) 1964, Pages 147-155, E. Ziegler et al, "Synthesen von Heterocyclen, 52. Mitt.: "Über Derivate des 2-Phenyl-4-hydroxy-[1,3-thiazinons-(6)]"
	AS	Heterocycl. Chem., 10, April, 1973, Pages 223-224, Roger Ketcham et al, "Synthesis of Heterocycles. 174 (1,2) Substituted Thiazines and Bisthiazinyls from Dithiooxamide and Trichlorophenyl Malonates"
	AT	Tetrahedron, Vol. 48, (month unavailable), 1992, Pages 7519-7526, J. Micklefield et al, "Alkylation and Acylation of 5-Phenylsulphonyl- and 5-Cyanobutyrolactones"

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	AA	*5,719,310	02/17/98	Fischer et al	560	83	
	AB	5,739,389	04/14/98	(Bel. to corresp. to EP Krüger et al	508,126) 562	489	
	AC	5,780,394	07/14/98	(Bel. to corresp. to EP Krüger et al	508,126) 504	281	
	AD	5,808,135	09/15/98	(Bel. to corresp. to WO Fischer et al	96/03366) 560	129	
	AE	5,830,826	11/03/98	(Bel. to corresp. to WO Fischer et al	95/26954) 504	195	
	AF	5,840,661	11/24/98	(Bel. to corresp. to WO Fischer et al	96/01798) 504	348	
	AG	5,945,444	08/31/99	(Bel. to corresp. to WO Fischer et al	95/26345) 514	445	
	AH	5,977,029	11/02/99	(Bel. to corresp. to WO Fischer et al	97/16436) 504	292	
	AI	5,994,274	11/30/99	(Bel. to corresp. to WO Fischer et al	97/02243) 504	282	
	AJ	6,057,352	05/02/00	(Bel. to corresp. to WO Brown et al	96/36616) 514	384	
	AK	6,071,937	06/06/00	(Bel. to corresp. to WO Bretschneider et al	97/19941) 514	336	

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							Yes	No*
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	AR	J. Chem. Soc. (C), (month unavailable), 1967, Pages 405-409, R. L. Edwards et al, "Constituents of the Higher Fungi, Part IV. Involutin, A Diphenylcyclopenteneone from <i>Paxillus involutus</i> (Oeder ex Fries)"
	AS	J. Economic Entomology, Vol. 66, (month unavailable), 1973, Pages 584-586, A. A. Sousa et al, "Esters of 3-Hydroxy-2-Arylindones, A New Class Of Acaricide"
	AT	J. Org. Chem., Vol. 44, (month unavailable), 1979, Pages 4906-4912, T. N. Wheeler, "Novel Photochemical Synthesis of 2-Aryl-1,3-Cyclohexanediones"

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	AA	6,096,895	08/01/00	(Bel. to corresp. to WO Brown et al	96/36633) 548	110	
	AB	6,110,872	08/29/00	(Bel. to corresp. to WO Lieb et al	97/01535) 504	284	
	AC	6,114,374	09/05/00	(Bel. to corresp. to WO Lieb et al	97/01535) 514	424	
	AD	6,140,358	10/31/00	(Bel. to corresp. to WO Lieb et al	97/36868) 514	425	
	AE	6,150,304	11/21/00	(Bel. to corresp. to WO Fischer et al	96/01798) 504	309	
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	AR	J. Chem. Soc. (C), (month unavailable), 1967, Pages 405-409, R. L. Edwards et al, "Constituents of the Higher Fungi, Part IV. Involutin, A Diphenylcyclopenteneone from <i>Paxillus involutus</i> (Oeder ex Fries)"
	AS	J. Economic Entomology, Vol. 66, (month unavailable), 1973, Pages 584-586, A. A. Sousa et al, "Esters of 3-Hydroxy-2-Arylindones, A New Class Of Acaricide"
	AT	J. Org. Chem., Vol. 44, (month unavailable), 1979, Pages 4906-4912, T. N. Wheeler, "Novel Photochemical Synthesis of 2-Aryl-1,3-Cyclohexanediones"

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